CLAIMS

1. A method for load balancing in a JAVA based environment, the method comprising:

executing an application having a first service module and a control module,

wherein the control module includes application-specific policies for the application;

sensing a utilization of system resources;

generating a second service module using the first service module in response to the sensed utilization of system resources;

transferring a state of the first service module to the second service module; and terminating the first service module.

- A method as recited in claim 1, wherein the operation of sensing the utilization of system resources includes polling system resources.
- 15 3. A method as recited in claim 1, wherein the operation of sensing the utilization of system resources includes receiving notifications from system resources.
 - 4. A method as recited in claim 1, wherein the application-specific policies include a specific server on which to generate the second service module.

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- 5 A method as recited in claim 4, wherein the second service module is generated using the specific server.
- 5 6. A method as recited in claim 5, wherein the specific server is selected based on the application-specific polices of the control module.
 - 7. An application having application-specific strategies for use in a JAVA environment, comprising:

a plurality of service modules having functionality for the application; and control module in communication with the plurality of service modules, wherein the control module includes application-specific policies for the application.

- 8. An application as recited in claim 7, wherein the control module manages the service modules.
 - 9. An application as recited in claim 7, wherein the application-specific polices are programmed using a JAVA programming language.

- 10. An application as recited in claim 9, wherein the application-specific policies include application-specific load balancing polices.
- 11. An application as recited in claim 10, wherein a first server module of the plurality of service modules is capable of moving to a second server based on the load balancing polices.
 - 12. An application as recited in claim 11, wherein the control module initiates a generation of a second service module on the second server.

- 13. An application as recited in claim 12, wherein a state of the first service module is transferred to the second service module.
- 14. An application as recited in claim 13, wherein the first service module is terminated after the state of the first service module is transferred to the second service module.
 - 15. A method for moving an application within a JAVA environment, comprising the operations of:

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executing a first service module and a control module on a first server, the control module having application-specific policies for an application;

sending a message from the control module to an executive runtime module, the message requesting the executive runtime module to move the first service module to a second server;

generating a second service module on the second server, the second service module having a state equivalent to a state of the first service module; and

terminating the first service module.

- 16. A method as recited in claim 15, further comprising the operation of obtaining the state of the second service module by a direct transfer from the first service module.
- 17. A method as recited in claim 15, further comprising the operation of obtaining the state of the second service module by using a state server that is shared with the first service module.
 - 18. A method as recited in claim 16, wherein the message from the control module to the executive runtime module includes an identity of the second server.

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- 19. A method as recited in claim 15, further comprising the operation of disabling requests to the first service module.
- 20. A method as recited in claim 19, further comprising the operation of enabling requests to the second service module.